## AMENDMENTS TO THE CLAIMS

## **Listing of the Claims**

The following listing of claims replaces all previous listings or versions thereof:

## 1-15. (Canceled)

- 16. (Previously presented) A method for detection of endotoxin comprising the steps of:
  - a) contacting a sample containing endotoxins with a surface, subsequently
  - b) incubating of bacteriophage tail proteins with the endotoxin immobilised on the surface, and
  - c) detecting bacteriophage tail proteins by means of spectroscopic methods, ELISA, chemical or enzymatic detection reaction of endotoxins or cleaved-of endotoxin components, or by means of capacitance measurements.
- 17. (Previously presented) The method according to claim 16, further comprising after step b) and before step c) an additional step of separating said bound bacteriophage tail proteins from endotoxin.
- 18. (Previously presented) The method according to claim 16, wherein the surface is coated with bacteriophage tail proteins.
- 19. (Previously presented) The method according to claim 16, wherein the bacteriophage tail protein is a protein of the short bacteriophage tail fiber or a coat protein of bacteriophages without tail.
- 20. (Previously presented) The method according to claim 16, wherein the protein of the short bacteriophage tail fiber is selected from K3, T2, T4, Ox2, RB32-33, AR1, PP01 and RB69.

- 21. (Previously presented) The method according to claim 19, wherein the bacteriophage tail protein has a homology of at least 60 % to T4p12 protein on the amino acid level.
- 22. (Previously presented) The method according to claim 16, wherein the bacteriophage tail proteins are modified.
- 23. (Previously presented) The method according to claim 16, wherein the bacteriophage tail proteins are covalently linked to enzymatically active proteins.
- 24. (Previously presented) The method according to claim 16, wherein the bacteriophage tail protein comprises a strep-tag or a his-tag.
- 25. (Previously presented) The method according to claim 24, wherein the tag comprises an amino acid sequence according to SEQ ID NOS 5, 6 or 7.
- 26. (Previously presented) The method according to claim 24, wherein the p12-protein of phage T4, K3, T2, Ox2, RB32-33, AR1, PP01 or RB69 is used as bacteriophage tail protein.
- 27. (Previously presented) The method according to claim 16, wherein the  $Ca^{2+}$  concentration is in the incubation 0.1  $\mu$ M to 10 mM and/or the  $Mg^{2+}$  concentration is 0.1  $\mu$ M to 10 mM.
- 28. (Previously presented) The method according to claim 16, wherein marked endotoxin is displaced from the binding with a bacteriophage tail protein and wherein the marked endotoxin is detected subsequently.
- 29. (Previously presented) An endotoxin detection kit comprising a carrier coated with an endotoxin binding substance, a container containing a reference endotoxin for measurement of a standard curve, and a container with at least one bacteriophage tail protein or an anti lipid A antibody.